

Application No. 08/962,362

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2. (Amended) The display device of claim 1 wherein the phosphor particles comprise a metal compound selected from the group consisting of ZnO, TiO₂ and Y₂O₃.

3. The display device of claim 2 wherein the metal compound is ZnO.

4. The display device of claim 1 wherein the phosphor particles have an average diameter from about 5 nm to about 50 nm.

5. The display device of claim 1 wherein the phosphor particles have a diameter distribution such that at least about 95 percent of the particles have a diameter greater than about 60 percent of the average diameter and less than about 140 percent of the average diameter.

6. The display device of claim 1 wherein the light emission follows low velocity electron excitation.

20. The display device of claim 1 wherein the phosphor particles further comprise a second collection of particles, the second collection of particles having a diameter distribution such that at least about 95 percent of the particles have a diameter greater than about 40 percent of the average diameter and less than about 160 percent of the average diameter.

21. The display device of claim 1 wherein the phosphor particles are in contact with an anode.

22. The display device of claim 1 further comprising a liquid crystal layer.

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23. The display device of claim 1 further comprising a partially light transparent substrate.

24. The display device of claim 1 further comprising a transparent electrode comprising indium tin oxide.

25. The display device of claim 1 further comprising an electrode to guide the electrons from the cathode to the anode.

26. The display device of claim 1 wherein the display is an electroluminescent display.

27. The display device of claim 1 wherein the device is a field emission device with the phosphor particles located between an anode and cathode.

28. The display device of claim 27 comprising a plurality of anodes and cathodes where each electrode pair forms an addressable pixel.

29. The display device of claim 1 wherein the phosphor particles are roughly spherical.

30. The display device of claim 1 wherein the phosphor particles are excitable by low velocity electrons.

Please add new claims 32-34 as follows:

32. (New) A display device comprising a collection of phosphor particles having an average diameter from about 15 nm to about 100 nm and having a diameter distribution such that at